

# **The 2<sup>nd</sup> Midwest Bow Echo Workshop Agenda**

## **Day 1 - Morning**

**Tuesday, 8 March 2011**

**8:00 AM – 8:40 AM**

Registration (continues through 9 March 2011)

**8:40 AM – 9:00 AM**

Opening Remarks

8:40-8:50:            *Introduction*  
                            *Ron Przybylinski – NWS St. Charles, MO*

8:50-9:00:            *Logistics (maps, breaks, dinner, etc.)*  
                            *Chuck Graves – St. Louis University*

**9:00 AM – 10:00 AM**

Session 1A – QLCS Near-Storm Environments (Session chair – Chuck Graves)

9:00-9:20:            *Analysis of Two Severe Wind-Producing, Null Tornado Bow Echo Events*  
                            *Ray Wolf – NWS Davenport, IA*

9:20-9:40:            *Conservation of Supercellular Vorticity: A Possible Origin of Severe Mesovortices in the Middle to Lower Missouri River Valley*  
                            *Chris Bowman – NWS Pleasant Hill, MO*

9:40-10:00:           *Boundary Interactions with the Development of Mesovortices in the August 4<sup>th</sup>, 2008 Chicago Derecho*  
                            *Tim Halbach – NWS La Crosse, WI*

**10:00 AM – 10:20 AM**

Coffee Break

**10:20 AM – 11:00 AM**

Session 1B – QLCS Modeling (Session chair – Ron Przybylinski)

10:20-10:40:           *Examination of a Pressure Surge, Gravity Wave, and Atmospheric Internal Bore Associated with the 13 March 2003 Bow Echo*  
                            *Rebecca Adams-Selin – Colorado State University*

10:40-11:00:           *An Investigation to Assess the Robustness of Aircraft Radar Data*  
                            *Allison Schmitz – Avfuel Corporation, Ann Arbor, MI*

**11:00 AM – 11:45 AM**

***The 8 May 2009 Super Derecho: Analysis of a 3 km WRF Real-time Forecast***

***Morris Weisman – NCAR (Keynote Speaker)***

**11:45 AM – 1:00 PM**

Lunch Break

**Day 1 - Afternoon**

**1:00 PM – 2:10 PM**

Session 1C – SPC/OAR Webinars (Session chair – Chad Gravelle)

- 1:00-1:20: *Evolution of a Quasi-Linear Convective System Sampled by Phased-Array Radar*  
*Jennifer Newman and Pam Heinselman – Univ. of Oklahoma/OAR*
- 1:20-1:45: *Convective Modes Associated with Significant Severe Thunderstorms in the Contiguous United States*  
*Rich Thompson – NWS Storm Prediction Center*
- 1:45-2:10: *Climatology of Near-Storm Environments with Convective Modes for Significant Severe Thunderstorms in the Contiguous United States*  
*Rich Thompson – NWS Storm Prediction Center*

**2:10 PM – 2:30 PM**

Coffee Break

**2:30 PM – 3:45 PM**

Workshop 1 – Proper QLCS Damage Surveying Techniques

**4:00 PM – 5:25 PM**

Session 1D – The 8 May 2009 Super Derecho (Session chair – Ray Wolf)

- 4:00-4:25: *Developmental Environment and Early Evolution of the 8 May 2009 Super Derecho*  
*Steve Corfidi – NWS Storm Prediction Center (webinar)*
- 4:25-4:45: *The 8 May 2009 Missouri Derecho: Mesoscale and Radar Analysis over Southwest Missouri*  
*Jason Schaumann and Ron Przybylinski – NWS Springfield, MO and NWS St. Charles, MO*
- 4:45-5:05: *Observations and Quantification of Counter-Rotating Mesovortex Couplets within the 8 May 2009 Southern Missouri Derecho*  
*Angela Lese – NWS Louisville, KY*

5:05-5:25:

*Communication and the Super Derecho of 8 May 2009: A  
Preliminary Analysis*  
*Pat Spoden and Christine Wielgos – NWS Paducah, KY*

**5:25 PM – 5:30 PM**

Concluding Remarks - Day One Ends

**7:00 PM**

Workshop Dinner - Favazza's on The Hill

**9:30 PM**

Workshop Outing - Beale on Broadway

# **The 2<sup>nd</sup> Midwest Bow Echo Workshop Agenda**

## **Day 2 - Morning**

**Wednesday, 9 March 2011**

**8:30 AM – 9:00 AM**

Registration continues

**9:00 AM – 9:30 AM**

**Genesis and Damaging Potential of Bow Echo Mesovortices**  
***Nolan Atkins – Lyndon State College (Invited Speaker)***

**9:30 AM – 10:30 AM**

Session 2A – The 26 October 2010 QLCS (Session chair – Pat Spoden)

9:30-9:50: **The 26 October 2010 Tornado Outbreak: Research Applied to Operations**

***Jon Chamberlain – NWS Northern Indiana***

9:50-10:10: **The October 26, 2010 Event Across Central Indiana**

***Michael Koch – NWS Indianapolis***

10:10-10:30: **Observations and Challenges from the 24 April and 26 October 2010 QLCS Events in Central Kentucky**

***Theodore Funk – NWS Louisville, KY***

**10:30 AM – 10:50 AM**

Coffee Break

**10:50 AM – 11:20 AM**

**Exploring the Existence of “Embedded Supercells” within Quasi-linear Convective Systems**

***Robert J. Trapp – Purdue University (Invited Speaker)***

**11:20 AM – 12:00 PM**

Session 2B – Local Studies (Session chair – Ted Funk)

11:20-11:40: **Terrain Influences on Bow Echoes in the Central Appalachians**

***Kris Mattarochia – NWS Blacksburg, VA***

11:40-12:00: **Convective Storms Producing Winds Greater Than 70mph – Longevity, Radar Structures and Near Storm Environments**

***Jacob Beitlich – NWS Des Moines, IA***

**12:00 PM – 1:15 PM**

Lunch Break

## **Day 2 - Afternoon**

### **1:15 PM – 2:15 PM**

Session 2C – The 2010 New Year's Eve Outbreak (Session chair – Wes Browning)

- 1:15-1:35: *Part I: A Damage and Radar Overview of the New Year's Eve 2010 Tornado Outbreak*  
*Fred H. Glass – NWS St. Charles, MO*
- 1:35-1:55: *Part II: Environmental Parameters Associated with the New Year's Eve Tornado Outbreak 2010*  
*Mark F. Britt – NWS St. Charles, MO*
- 1:55-2:15: *Part III: Warning Strategies and Operational Decisions – New Year's Eve Tornado Outbreak 2010*  
*Jim Sieveking – NWS St. Charles, MO*

### **2:15 PM – 2:35 PM**

Coffee Break

### **2:35 PM – 3:15 PM**

Session 2D – QLCS Warning Parameters (Session chair – Angela Lese)

- 2:35-2:55: *The Tornadoic Squall Line Index*  
*Doug Cramer – NWS Springfield, MO*
- 2:55-3:15: *The Utility of the Normalized Rotation Parameter to Diagnose Tornadoogenesis in Quasi-Linear Convective Environments*  
*Kurt Weber – NWS Huntsville, AL*

### **3:15 PM – 3:55 PM**

Session 2E – The 18 June 2010 Derecho (Session chair – Chuck Graves)

- 3:15-3:35: *Part I: Meteorological Analysis of the 18 June 2010 Derecho*  
*Gino Izzi – NWS Chicago, IL*
- 3:35-3:55: *Part II: Decision Support Services Prior to the 18 June 2010 Derecho*  
*Sam Shea – NWS Chicago, IL*

### **3:55 PM – 4:15 PM**

Coffee Break

### **4:15 PM – 5:30 PM**

Workshop 2 – Proper QLCS Warning Techniques

### **5:30 PM**

Concluding Remarks - Day Two Sessions and Workshop Ends